

Silva Sweden AB
Tel: +46 (0)8 623 43 00
info@silva.se

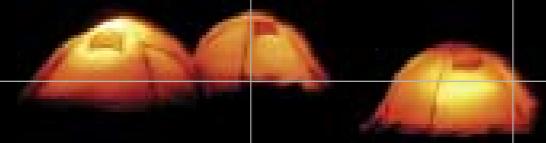
Silva Ltd
Tel: +44 (0)1506 406 277
info@silva.ltd.uk

Silva France
Tel: +33 (0)1 30 92 66 22
silva.france@wanadoo.fr

Silva Deutschland GmbH
Tel: +49 (0)6172 45 44 80
info@silva-outdoor.de

Brunton
Tel: +1 307 856 6559
support@brunton.com

SILVA
Get out there™



Special thanks to Mikael af Ekenstam (extreme skier and guide),
Ketil Singstad (tourist ambassador) and Per Engman (photographer).
For more information about Narvik please visit: www.narvikinfo.no
For extreme skiing: www.extrem.se

Official partners:



41029-1 English

All photos by Per Engman



Position N68°26'25.4" E17°27'58.1"



Narvik

- adventure where the mountains meet the fjords

I team up with the crew from Silva at the tiny Narvik Airport, the rain seems unrelenting, dark clouds shroud the mountain revealing an occasional glimpse of the white topped summits dressed with deep fresh powder snow, waiting to be explored.

At sea level, down in the valley the autumn paints a rainbow of colours signalling the start of the winter shut down. Breathtaking! If only the clouds would disappear and reveal the real magic of the heaven.

Though we are way north of the arctic circle, the Gulf Stream softens the climate leaving it bearable to the newcomers.

Narvik rests where the mountains meet the ocean so visitors know there will always be seasonal differences between the summits and the valley.

When you see the splendour of a sea eagle, and it happens often, you are guaranteed it will dive for its lunch. Spectacular! The enthusiastic tourist ambassador Ketil Singstad almost starts to sing when talking about his favourite spot: The Sør-Skjomen fjord.

He never hesitated a second to leave his daily routines at the office to get a chance to sit in the kayak fishing just to feed the sea eagles, just to show off! For a man who is used to kayaking around killer whales, this is pure stress free joy.

"It is simple" he says, "Just sit in the kayak on the 900 metre deep fjord and catch fish. Then, throw the fish back again, it will float!. Now it's just a matter of time for the sea eagle to come for dinner."

The sea eagle attacks like a fighting jet, diving towards the fish, it hesitates for a moment, as if it is thinking whether it will be able to catch the fish or not. But the hesitation turns into swift action when the eagle grasps the prey in its sharp, vice like talons and veers off towards the mountains. We are all stunned and just stand there with our mouths open. This was probably one of the most powerful things any of us have seen.

After a couple of intense days of guiding the Silva team in my special backyard it's time for them to head back home. Despite the rain, we all agree our time together has been memorable but too short. Not to worry, they will be back to explore more of the Narvik magic but hopefully, next time, with the weather gods on our side.

Mikael af Ekenstam, guide book author and extreme skier

HEADLAMPS

Our commitment to developing the world's best headlamps is exemplified by the new L-series which is a high-tech, state-of-the-art headlamp line that has both top performance as well as smart design in a very compact format.

If you have the highest possible demands on performance we urge you to have a look at our High Power Headlamp range. This is as close to a car-light you will get and is appreciated by the most extreme users as well as the demanding sportsman and leisure user!

Let there be light – trust us – we will provide it!



SILVA
Get out there™

Headband

- Anti-slip treated for attachment on helmet
- Helmet hooks can be used (optional)
- Adjustable size

Reflector

- Set the beam in your preferred position

3W LED Luxeon™

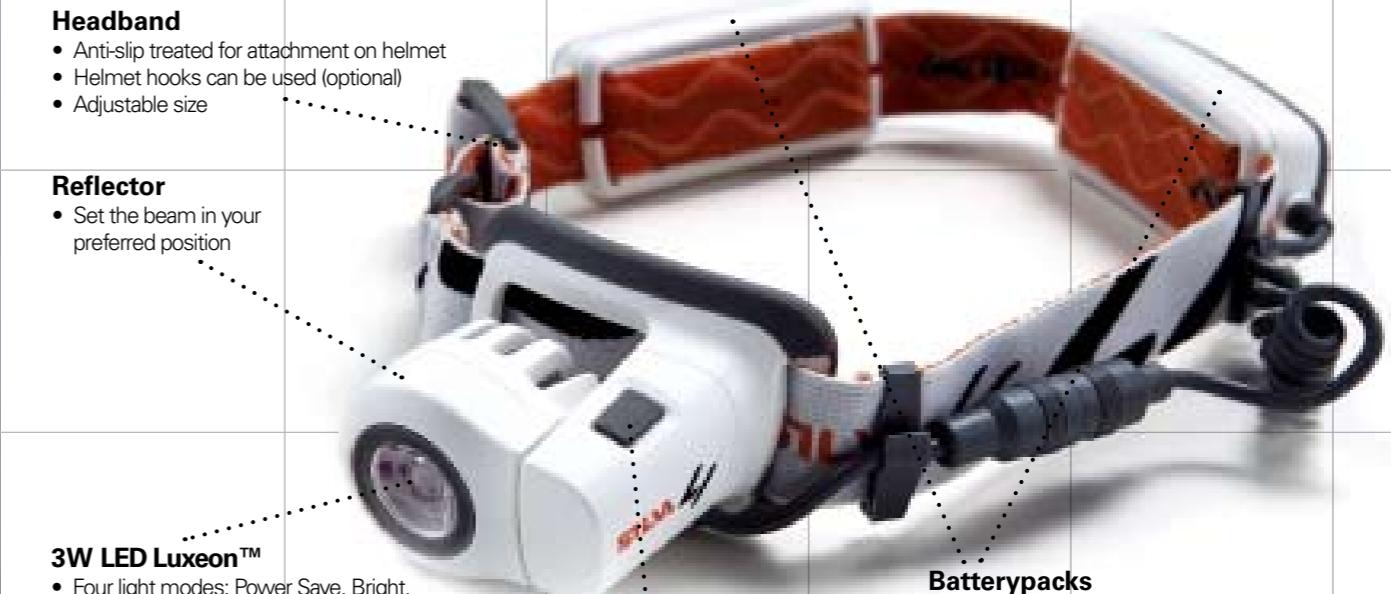
- Four light modes: Power Save, Bright, Ultra Bright, Blinking
- Light range up to 63 meters



Silva L-series

The L-series unique light output combined with compact design and low weight set these headlamps apart from anything out there. The brightest LED lamps on the market have made this possible. All L-series models are made from carefully selected robust materials, making them extremely durable and ensuring many hours of tough use in the darkness. Completely weatherproof, the L-series will withstand the most demanding conditions such as rain, snow and water-splashes.

Headlamp L1



Batterypacks

- For 4 AA batteries (included)
- Discharge time up to 200 hours (using light mode Power Save)
- Included with the headlamp is an external battery case for 4 C (LR14) batteries (not included) which increases the discharge time by 300% and for better performance in cold temperatures



Silva M-series

The M-Series compact headlamps offer a combination of fantastic light using halogen technology and floodlight with LED lamps for close range work and long discharge time. Weather proof construction ensures use in the toughest conditions like snow and rain. The compact, rugged construction makes the M-series the ultimate choice for the headlamp user that appreciates a good light beam and output for challenging moments.



Silva high-power series

These are your options when you want to turn night into day!

With Silva high-power headlamps, you are probably getting the best light from a

headlamp available on the market. Outstanding performance due to the 10 Watt and 20 Watt bulb configuration. Large reflectors and long discharge times, due to the effective batteries, are important factors for users such as search and rescue teams, cross-country skiers, mountain bikers etc. Combine with any rechargeable battery and charging set.

L-SERIES



L1

Experience the real power of the Ultra-Bright 3-Watt Luxeon™ LED.

State of the art technology that delivers such a dramatic brightness it leaves others in the shade!

- Four light modes: Power Save, Medium, Bright, Blinking
- Batteries: 4 AA (LR6) included
- Light range up to 63 meters
- Discharge time up to 200 hours (using light mode Power Save)

Included with the headlamp is an external battery case for 4 C (LR14) batteries (not included) which increases the discharge time by 300% and for better performance in cold temperatures.

Art.no. 57081



L2

The Light-Weight L2 is a Super-Bright headlamp perfect for outside activities when on the move. The 1-Watt Luxeon™ LED gives that extra brightness just when you need it!

- Four light modes: Power Save, Medium, Bright, Blinking
- Batteries: 2 AA (LR6) included
- Light range up to 35 meters
- Discharge time up to 85 hours (using Power Save light mode)

Art.no. 57082



L3

Using five powerful, white LEDs, L3 gives optimal performance for users that want stronger light than traditional LED headlamps. The L3 is also equipped with a red LED for night-vision – for example reading the sea chart during night navigation.

- Five light modes: Red on, Power Save, Medium, Bright, Blinking
- Batteries: 4 AA (LR6) included
- Light range up to 22 meters
- Discharge time up to 150 hours (using light mode Power Save)

Art.no. 57083



L4

L4 is an extremely compact and traditionally styled LED headlamp. The L4 is powered by 3 AAA (LR3) batteries (included) integrated in the headlamp body making it extremely compact and lightweight. Equipped with 4 LEDs (3 white and 1 red), the L4 gives the user a perfect flood light for any close range work application. The red light is used in applications where night vision has to be kept un-destroyed

- Five light modes: Red on, Power Save, Medium, Bright, Blinking
- Batteries: 3 AAA (LR3) included
- Light range up to 15 meters
- Discharge time up to 90 hours (using light mode Power Save)

Art.no. 57084

L-CAMO SERIES



L1-Camo

Experience the real power of the Ultra-Bright 3-Watt Luxeon™ LED. L1-Camo is the perfect choice for high demanding people in need of true performance. State of the art technology that delivers such a dramatic brightness it leaves others in the shade!

- Four light modes: Power Save, Medium, Bright, Blinking
- Batteries: 4 AA (LR6) included
- Light range up to 63 meters
- Discharge time up to 200 hours (using light mode Power Save)

Included with the headlamp is an external battery case for 4 C (LR14) batteries (not included) which increases the discharge time by 300% and for better performance in cold temperatures.

Art.no. 57081-1



L3-Camo

Using five powerful, white LEDs, L3-Camo gives optimal performance for users who need stronger light than traditional LED headlamps. The L3-Camo is also equipped with a red LED for saving night vision.

- Five light modes: Red on, Power Save, Medium, Bright, Blinking
- Batteries: 4 AA (LR6) included
- Light range up to 22 meters
- Discharge time up to 150 hours (using light mode Power Save)

Art.no. 57083-1



L2-Camo

L2-Camo is a Super-Bright headlamp perfect for outside activities as hunting, fishing etc. when performance and light weight are of outmost importance. The 1-Watt Luxeon™ LED gives that extra brightness just when you need it!

- Four light modes: Power Save, Medium, Bright, Blinking
- Batteries: 2 AA (LR6) included
- Light range up to 35 meters
- Discharge time up to 85 hours (using Power Save light mode)

Art.no. 57082-1



L4-Camo

L4-Camo is an extremely compact headlamp suitable for all close range work. The L4-Camo is powered by 3 AAA (LR3) batteries integrated in the headlamp body making it extremely compact and lightweight. Equipped with 4 LEDs (3 white and 1 red), the L4-Camo is truly versatile. The red light is used for saving night vision.

- Five light modes: Red on, Power Save, Medium, Bright, Blinking
- Batteries: 3 AAA (LR3) included
- Light range up to 15 meters
- Discharge time up to 90 hours (using light mode Power Save)

Art.no. 57084-1

M-SERIES



Charger and rechargeable battery pack included.

M1

Top performance for the frequent user.

- 4 W Halogen bulb + 3 LEDs
- Light distance 43 m
- Rechargeable NiMH
- 1600mAh + charger (included)
- Discharge time 4 W Halogen bulb – approx. 1 h 45 min
- Discharge time 3 LEDs – approx. 100 h
- Charging time 16 h
- Weight 320g (incl. batteries)

Art.no. 57003



M3

The standard for field performance.

- 2.4 W Krypton
- Light distance 32 m
- 4 pcs AA (LR6) Alkaline batteries (included)
- Weight 320g (incl. batteries)

Art.no. 57001



M2

Top performance for outdoor activities.

- 2.4 W Halogen + 3 LEDs
- Light distance 35 m
- 4 pcs AA (LR6) Alkaline batteries (included)
- Discharge time 2.4 W Halogen – approx. 2 h 30 min
- Discharge time 3 LEDs – approx. 150 h
- Weight 320g (incl. batteries)

Art.no. 57002



M4

Our most compact headlamp!

- 3 LEDs
- 4 light modes – Full, Medium, Power Save and Blinking
- Light distance 10 m
- 3 pcs AAA (LR3) Alkaline batteries (included)
- Discharge time up to 90 hours (Power Save)
- Weight 80g (incl. batteries)

Art.no. 57000

HIGH POWER HEADLAMPS



480
Extremely lightweight and with a well-fitting construction. This is probably the most comfortable high-power headlamp on the market.
Weight: 190g.
Art.no. 57060-20

| Discharge times NiMH batteries | | | | | | |
|--------------------------------|-----|-------------|----------|----------|--------|-----------|
| Art.no. | Ah | Charge time | 10W | 20W | Weight | Size (mm) |
| 57102-45 | 4,5 | 6-20h | 2h 40min | 1h 20min | 320g | 90x70x18 |
| 57104-90 | 9,0 | 12-20h | 5h 20min | 2h 40min | 630g | 180x70x18 |

Above discharge times are approximate and can vary depending on the condition of the battery, the temperature in the surroundings etc.



NiMH Batteries 4,5Ah - 9Ah

Art.no. 57102-45 (4,5Ah)

Art.no. 57104-90 (9Ah, flatpack)

Art.no. 57101 (Spare rechargeable battery for M1)



Quick charging set

- Charge time for 9,0 Ah batteries approx. 12 hours
- Charge time for 4,5 Ah batteries approx. 6 hours

When red light is on: the battery is charging

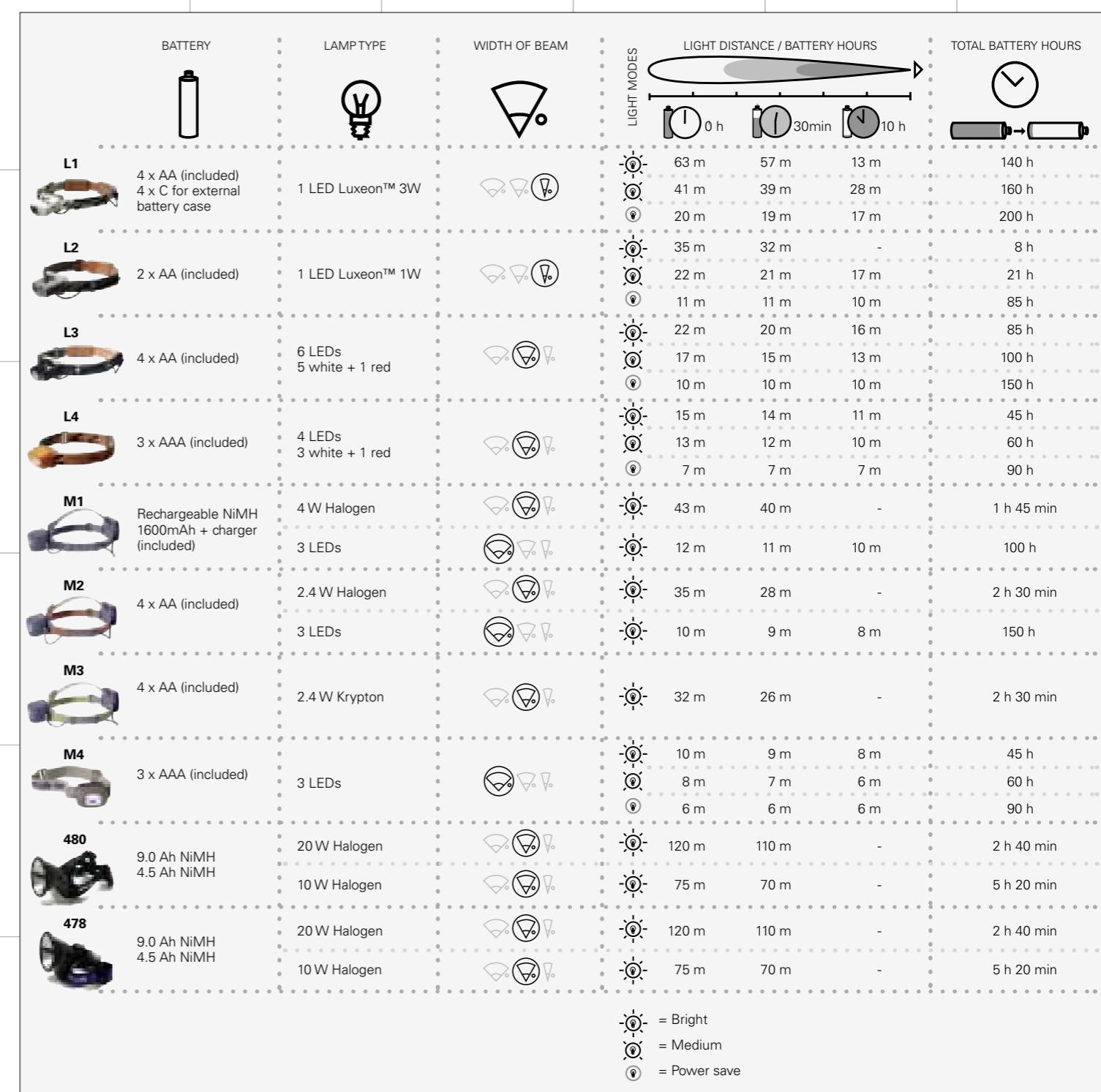
When red light is on: the battery is charging
When red light is flashing: the battery is fully charged
Art.no. 57125-96, UK
Art.no. 57125-97, EU
Art.no. 57125-98, AUS
Art.no. 57125-98, JP



Battery Carrier Comfort

New battery carrier with optimal fit. Material in comfortable foam with fabric coating and elasticated straps for fixing to the body. Adjustable fixing for the battery. Suitable for all Silva NiMH batteries.

Art.no. 57184



GPS

Look at the sky and navigate! That was the trick used by the explorers in the old days – and it is equally valid today but instead of using the stars we now use the satellites!

GPS has brought a completely new dimension to navigation on land and at sea. You know where you are, you know where and how far to go and on top of it you get a lot of other useful information to make your navigation safe and accurate.

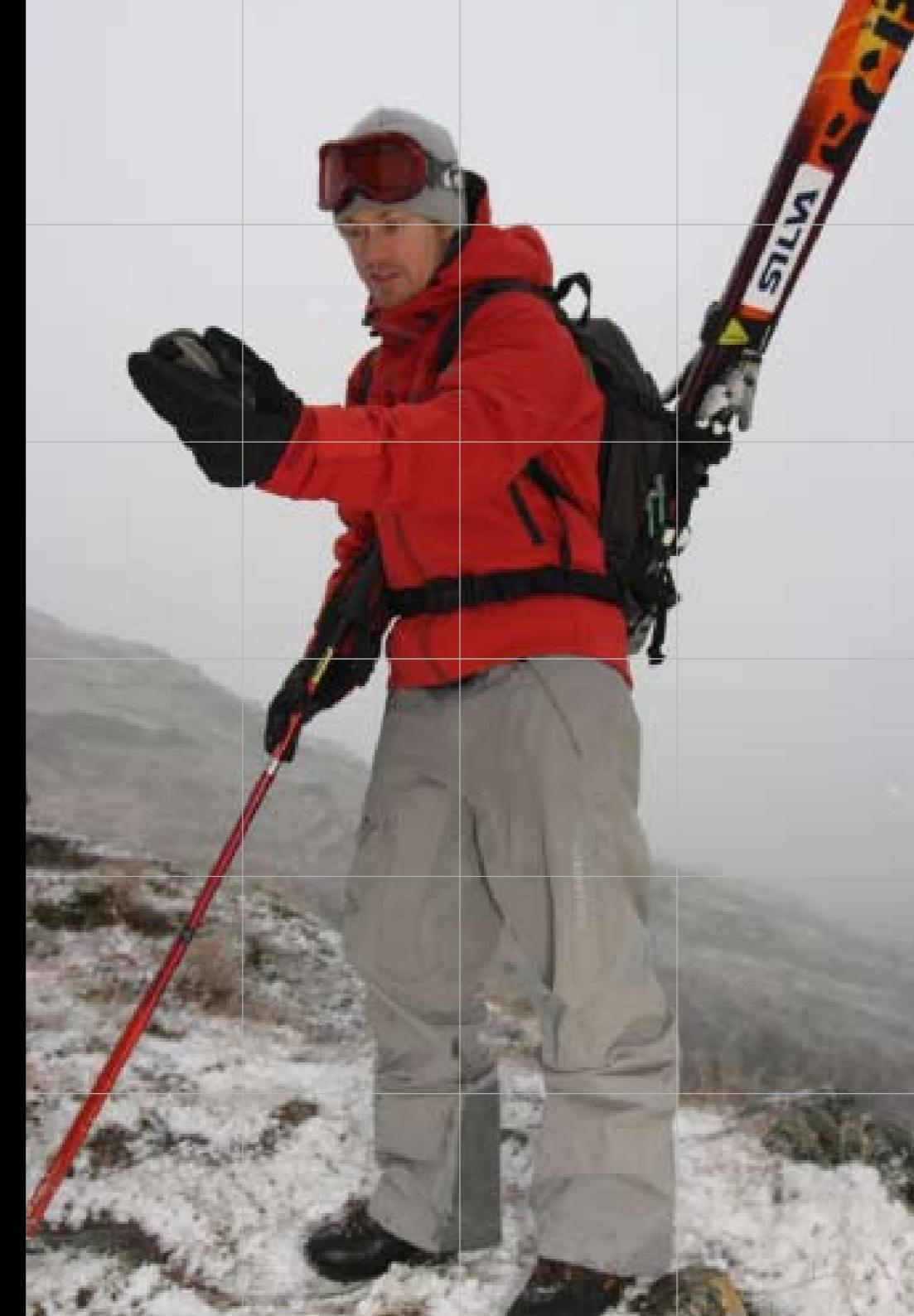
Our product range holds three different models where the ATLAS and ATLAS Pro, with mapping options for both land and sea, are the "urban navigators" and the Multi-Navigator is the off-road, hardcore, navigator for the extreme users who know that mistakes and instrument failures in the toughest of conditions is simply not an alternative. Let us show you the way on your adventure!

ADC - ATMOSPHERIC DATA CENTER

Instruments that provide essential environmental data such as wind, temperature, barometric pressure altitude etc. Compact, water proof and light-weight makes the ADC a natural partner on all outdoor activities.

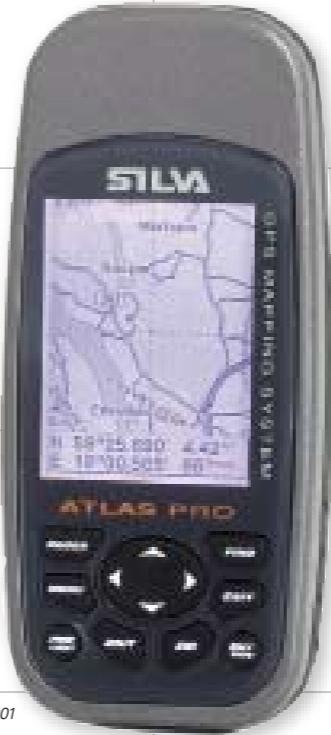
PORATBLE POWER

Utilise free power! The environmental friendly Solar I and Solar II will provide power for your portable electronics when you are "out there". Imagine that your cell-phone is running out of batteries...or your GPS, or your digital camera, or your headlamp, or your MP3 player or...



ATLAS PRO GPS

Search compatible!



Art.no. 22586-901

No matter if you are in the outdoors, at sea, or if your main goal is to find a street in a city, the Atlas™ PRO will guide you to the correct destination.

- Unique Easy/Advance mode makes it simple to get started no matter if you are a beginner in the GPS navigation field.
- Pre-programmed mapping data-base covering the US with highways, rivers and lakes at your fingertips. It also has a built-in, low detail, world background mapping data-base.
- Plug in one of a variety of **Atlas Info™ MMC cards** or **Navionics® sea charts** (both optional) that represent your region and the resolution gets amazing! Recall addresses and phone numbers of restaurant etc. Find points of interest, such as attractions, airports, cultural, lodging, shopping etc. Navigate safely at sea with all necessary information available on the Navionics® sea charts.

TECHNICAL DATA ATLAS PRO GPS

Navigation

Waypoints: 1 000 Waypoints

Waypoint icons: 42 symbols

Event markers: 1 000

Routes: 10 reversible routes, each with up to 100 waypoints. Easy point and map cursor navigation/route planning.

Plot trails: 10 trails, max 10 000 trail points.

Unique "Find Home" navigation

Map datums: More than 170 local map datums

Grid systems: More than 10 including UTM, MGRS, plus, British, Irish, Finnish, German, New Zealand, Swedish, Swiss, Taiwan, Greek.

Mapping

Built in maps: US road map. Low detail world map.

Atlas Info cards: High detail mapping including points of interest (attractions, airports, cultural, entertainment, lodging, shopping etc) MMC1-Germany, MMC2-France/Monaco, MMC3-UK/Ireland, MMC4-Denmark/Norway/Sweden/Finland, MMC5-Italy/Liechtenstein/San Marino/Switzerland, MMC6-BeNeLux, MMC7-Spain/Andorra/Portugal, MMC8-Czech/Poland/Austria

Navionics®: Compatible with all Navionics® MMC card sea charts

Zoom range: Multiple zoom ranges: 0,02km-4000m

GPS-Receiver

Receiver type: 12-channel parallel GPS + WAAS

Position update rate: 1 per second when in continuous GPS navigation mode, down to 10 seconds update rate in power save mode.

Differential GPS/WAAS: Ready for differential corrections/WAAS.

Antenna: Built-in patch antenna, connection for external antenna.

Accuracy: Normally better than 10 meters. (Down to 3 meters with WAAS in the US)

Data I/O

NMEA 0183 Out

RTCM-SC104 DGPS Input

Miscellaneous

LCD: High contrast backlit LCD, 4 level grey scale

LCD Resolution: 180 x 240 Pixels, 43 200 total.

Internal power: 2 AA batteries (not included)

External power: 8-30 VDC

Battery life: Continuous GPS navigation – Up to 12 hours

Power save GPS navigation - Up to 20 hours

Languages: English, French, German, Spanish, Italian, Danish, Swedish, Russian, Dutch & Finnish

Operating temperature range: -10°C to +60°C

Waterproof: IPX7

Dimensions

Size: 146x65x30 mm

Weight: 200 g (excluding AA batteries)

Article number: 22586-901

Optional accessories

Vehicle kit ATLAS (incl. cradle, RAM mount) – Art.no. 22605
Black holster ATLAS – Art.no. 22606

Atlas, Atlas Pro-Remote antenna – Art.no. 22607

Atlas Cig Plug Power Adapter – Art.no. 22613

Atlas PC Data cable w/cig plug – Art.no. 22611

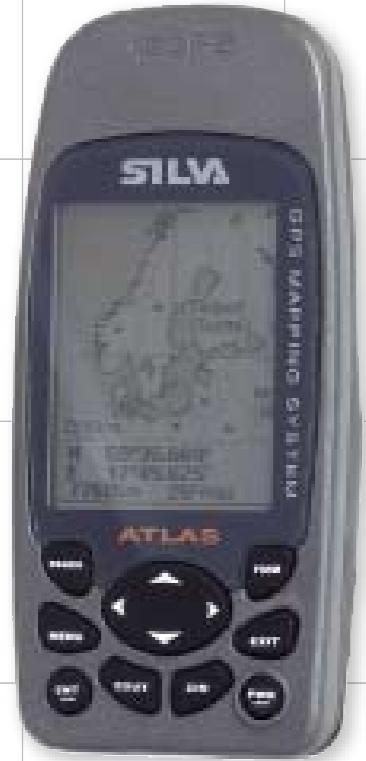
Atlas PC Data cable w/o cig plug – Art.no. 22612

Cradle separate ATLAS – Art.no. 22603

Warranty

1 year limited warranty

ATLAS GPS



Art.no. 22581-901

No matter if you are in the outdoors or if your main goal is to find a street in a city, the Atlas™ will guide you to the correct destination.

- Unique Easy/Advance mode makes it easy to get started no matter if you are a beginner in the GPS navigation field.
- Pre-programmed mapping data-base covering the US with highways, rivers and lakes at your fingertips. It also has a built-in, low detail, world background mapping data-base.
- Plug in one of a variety of Atlas Info™ MMC cards (optional) that represent your travel region and the resolution gets amazing! You can recall addresses and phone numbers of your favourite restaurants and points of interest, such as attractions, airports, cultural, entertainment, lodging, shopping etc not to mention every back road on the map.

TECHNICAL DATA ATLAS GPS

Navigation

Waypoints: 1 000 Waypoints

Waypoint icons: 42 symbols

Event markers: 1 000

Routes: 10 reversible routes, each with up to 100 waypoints. Easy point and map cursor navigation/route planning.

Plot trails: 10 trails, max 10 000 trail points.

Unique "Find Home" navigation

Map datums: More than 170 local-map datums

Grid systems: More than 10 including UTM, MGRS, plus, British, Irish, Finnish, German, New Zealand, Swedish, Swiss, Taiwan, Greek.

Mapping

Built in maps: US road map. Low detail world map.

Atlas Info cards: High detail mapping including points of interest (attractions, airports, cultural, entertainment, lodging, shopping etc) MMC1-Germany, MMC2-France/Monaco, MMC3-UK/Ireland, MMC4-Denmark/Norway/Sweden/Finland, MMC5-Italy/Liechtenstein/San Marino/Switzerland, MMC6-BeNeLux, MMC7-Spain/Andorra/Portugal, MMC8-Czech/Poland/Austria

Zoom range: Multiple zoom ranges: 0,02km-4000m

GPS-Receiver

Receiver type: 12-channel parallel GPS + WAAS

Position update rate: 1 per second when in continuous GPS navigation mode, down to 10 seconds update rate in power save mode.

Differential GPS/WAAS: Ready for differential corrections/WAAS.

Antenna: Built-in patch antenna, connection for external antenna.

Accuracy: 15 metres RMS. 1-5 metres RMS with DGPS/WAAS

Data I/O

NMEA 0183 Out

RTCM-SC104 DGPS Input

Miscellaneous

LCD: High contrast backlit LCD, 4 level grey scale

LCD Resolution: 120x160 Pixels, 19 200 total.

Internal power: 2 AA batteries (not included)

External power: 8-30 VDC

Battery life: Continuous GPS navigation – Up to 12 hours

Power save GPS navigation – Up to 20 hours

Languages: English, French, German, Spanish, Italian, Danish, Swedish, Russian, Dutch & Finnish

Operating temperature range: -10°C to +60°C

Dimensions

Size: 142x65x25 mm

Weight: 153 g (excluding AA batteries)

Article number: 22581-901

Optional accessories

Vehicle kit ATLAS (incl. cradle, RAM mount) – Art.no. 22604

Black holster ATLAS – Art.no. 22606

Atlas, Atlas Pro Remote antenna – Art.no. 22607

Atlas Cig Plug Power Adapter – Art.no. 22608

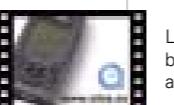
Atlas PC-Data cable w/cig plug – Art.no. 22609

Atlas PC Data cable w/o cig plug – Art.no. 22610

Cradle separate ATLAS – Art.no. 22602

Warranty

1 year limited warranty



Learn more about Atlas by watching the movies at www.silva.se



Cig Plug Power Adapter

Art.no. 22613 for Atlas Pro

Art.no. 22608 for Atlas

Remote Antenna

Art.no. 22607



Vehicle Kit

Art.no. 22605 for Atlas Pro

Art.no. 22604 for Atlas



Holster

Art.no. 22606



Atlas Info card

High detail mapping including points of interest (attractions, airports, cultural, entertainment, lodging, shopping etc)

Art.no. 22601-1 - 22601-8



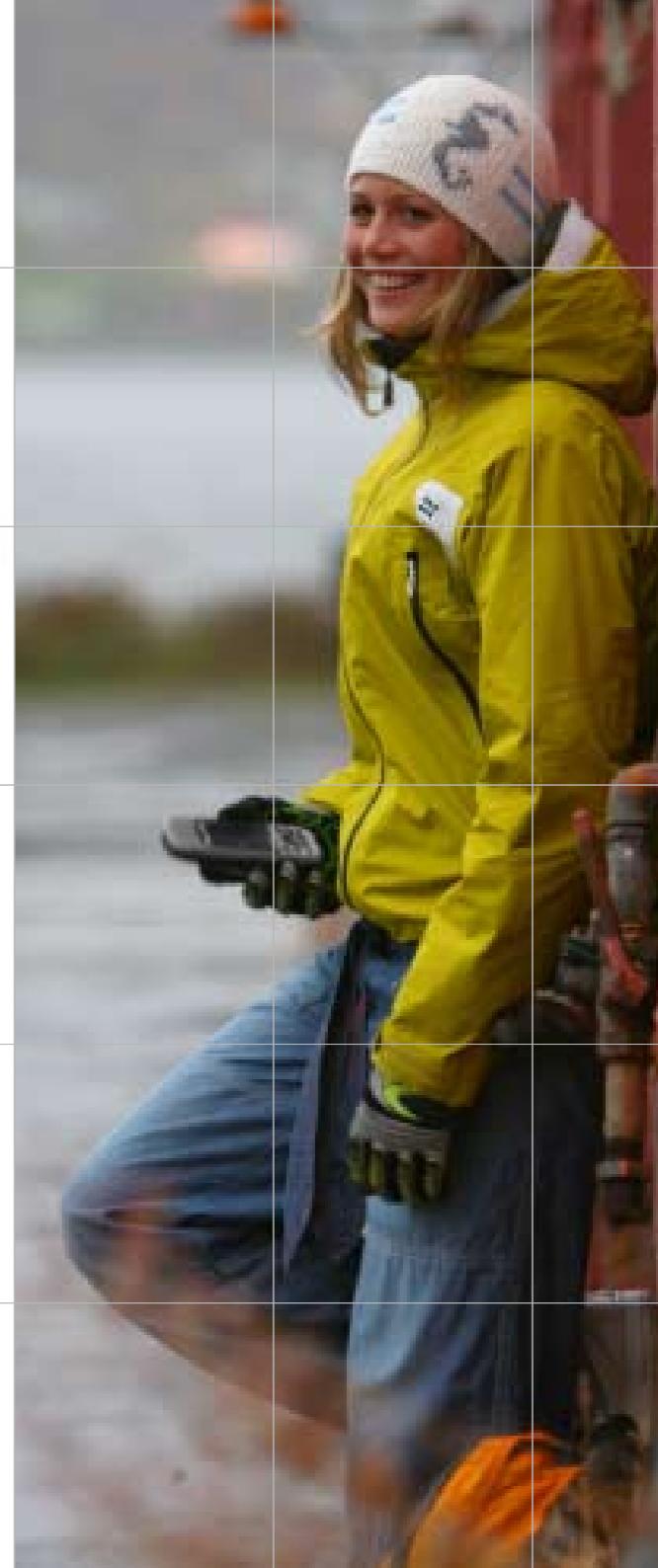
Navigation Information



Detailed mapping



Position information



MULTI-NAVIGATOR

Art.no. 21802-9 (yellow)
Art.no. 21802-901 (grey)



The Multi-Navigator™ tells you not only where you are but also where, when and why to go.

The Silva Multi-Navigator has been designed to perform in extreme conditions. Being able to operate down to -25°C is no good if the buttons are too small to operate with gloves on. Being able to operate under tree canopy is no good if you can't receive the satellite signals. Having an illuminated LCD is no good if the buttons are not illuminated. The Silva Multi-Navigator is a high performance navigation instrument. It works because it is functional. You can't play games on it because life is not a game.

Information whenever you need it - Big, high contrast LCD with backlight means you can get information instantly, in poor light, in a blizzard, in a sandstorm or at night.

Information wherever you need it - The powerful receiver makes reception possible in areas and conditions where others may fail.

Battery life or death. Battery longevity can mean the difference between life and death. The Silva Multi-Navigator includes an electronic compass and is so frugal with power you can navigate for up to 150 hours on just two AA batteries.

The one button GPS - Most people will use their GPS for finding their way back to where they started. We've made it as simple to do as it sounds. Press a button once to automatically store and display your "home" position. That's it. Pure and simple.

Intellicompass - Intelligent Electronic Compass Navigation. The Silva Multi-Navigator features a built in electronic compass that works in the same way as a traditional compass by detecting the Earth's magnetic field. It uses extremely low power and will function stationary and on the move. It automatically compensates for the local magnetic declination to give a true compass direction, every time. Just two AA batteries will provide navigation for up to 150 hours. Highly accurate Altimeter. If you're going high, you need to know how high. Measurement of Altitude by GPS is only accurate to plus or minus 30 metres. The Silva Multi-Navigator has an on-board altimeter which is accurate to within 1 metre.

Forward thinking Barometer - Knowing where to go is one thing, knowing when is another entirely. By tracking and recording the barometric pressure the Multi-Navigator is able to provide a weather forecast, enabling you to avoid walking into a storm.



Learn more about the Multi-Navigator by watching the movies at www.silva.se



GPS navigation with clear, directional information. Store up to 1000 waypoints in 10 routes.



12 Channel GPS Receiver shows position.



Home at the touch of a button. Finding your way back is as easy as pressing a single button, essential in an emergency.



Electronic compass with one-degree resolution cardinal and intercardinal points.



Altimeter detects differences down to 1 metre.



Weather forecast in 5 levels from 'Sunny' to 'Stormy'.



Vehicle Kit
Mounting bracket and a 12V-power cable with cigarette lighter adapter for use in a 4WD, ATV, snowmobile, balloon etc.
Art.no. 21930-1



TECHNICAL DATA MULTI-NAVIGATOR

Navigation

Waypoints: 1000 Waypoints

Routes: 10 reversible routes, each with up to 100 waypoints

Area calculation: Calculates the area in hectares/acres "inside" a route.

Track logging: 5000 trackpoints. Automatically records your trip and stores it for display using in a compatible PC software

Map datums: More than 100 local map datums

Grid systems: More than 10 including UTM, MGRS, plus Swiss, Australian, New Zealand, Netherlands, Irish, Finnish, Taiwan, Swedish and UK grids

GPS-Receiver

Receiver type: 12-channel parallel

Position update rate: 1 per second when in continuous GPS navigation mode

Differential GPS: Ready for differential corrections. (RTCM-SC104)

Antenna: Built-in patch antenna

Accuracy: 15 metres RMS. 1-5 metres RMS with DGPS

Electronic compass

IntelliCompass™: Automatic compensation for Earth's local magnetic declination

Accuracy: Better than 3 degrees

Resolution: 1 degree

Altimeter

Altitude: -700 m to +9200 m

Accuracy: Down to 1 metre assuming it is correctly calibrated

Resolution: 1 metre

Weather station - Barometer

Forecast: Shows forecast for 12 hours ahead as: Sunny, Partly cloudy, Cloudy, Rainy and Storm Warning

Barometric pressure range: 300-1100 hPa/mbar

Barometric history: Pressure changes over the last 36 hours

Accuracy: +/- 1.5 hPa

Data I/O

NMEA 0183 Out

Nexus PP Proprietary protocol

RTCM-SC104 DGPS Input

Miscellaneous

Internal power: 2 AA batteries (not included)

External power: 6-28 VDC

Battery life: Typical compass navigation – Up to 60 days**

Typical compass/GPS navigation – Up to 100 hours***

Continuous GPS navigation – Up to 10 hours

Languages: More than 10 (including English, French, German, Spanish, Portuguese, Italian, Dutch, Swedish, Estonian, Czech, Norwegian, Finnish and Hungarian)

Operating temperature range: -25°C to +70°C

** = 15 seconds every 5th minute. Continuous barometer logging.

*** = GPS position update every 30th minute, compass 15 seconds every 5th minute. Continuous barometer logging.

Dimensions

Size: 170x61x30 mm

Weight: 254 g (including batteries)

Standard accessories

Wrist strap

Interactive neoprene carrying case

Warranty

2-years

How does the GPS System work?

The Global Positioning System is based upon 24 satellites that circle around the Earth. By receiving the signals from the satellites, the GPS receiver can calculate its position with an accuracy of down to a few metres. The GPS receiver needs to receive signals from at least 4 satellites simultaneously in order to calculate a position. The system works no matter where on Earth you are, 24 hours a day, 365 days a year.

Why should I buy a GPS?

A GPS is a valuable aid to navigation and in some situations, could prove essential to those who need precise POSITION, DIRECTION, ALTITUDE, SPEED and MAPPING information. Using a GPS makes navigation even more interesting and fun. It also makes it much safer for all concerned.

What kind of GPS should I buy?

For "urban navigation" we recommend one of the ATLAS products where you have the possibility to utilise the maps on the MMC cards (optional). For boat owners we recommend the ATLAS Pro which can be used with Navionics® sea charts.

If you are a true outdoor user, with demands of functionality in extreme temperatures, under tree coverage and in extreme wet and snowy environments the Multi-Navigator™ is the perfect choice.

Can I use a GPS indoors, or in a car?

The GPS receiver needs to be in contact with the satellites in the sky and does not normally work indoors. However, in a car, where the GPS signal can travel through the windows, it normally works fine. Remember though, that the GPS always works best with a clear view of the sky.



ADC - ATMOSPHERIC DATA CENTER



ADC Wind

Ever wondered about the wind and its effect on you and your performance? The SILVA ADC Wind is the perfect instrument designed for outdoor people such as sailors, trekkers, Para gliders, skiers, golfers, sailors, balloonists, hang gliders, windsurfers and many others.

- Displays current, max and average wind speed (in km/h, mph, feet/s, or knots)
- Shows current temperature (C and F) and a past 24-hour temperature history
- Wind chill (current and min)
- Wind chill alarm
- Real time clock with alarm
- Time, day and date
- Chronograph with 50 lap times
- Race Timer
- Compass (one of the impellers blades works as a compass needle when held horizontally)

Art.no. 55250



ADC Summit

Featuring an air-pressure sensor on top of the functionality provided in the ADC Wind, this unit is the perfect companion when in the mountains and/or when an altitude/barometric pressure/weather tendency is required. The ADC Summit is designed for mountaineers, climbers, skiers (yes, it counts the number of ski runs as well!) and many others. Your performance data can be logged in the ADC Summit and downloaded through the ADC IR interface (optional accessory) to a PC.

Same features as ADC Wind plus:

- Altitude (current, min and max)
- Altitude Alarm
- Cumulative ascend/descend
- Ski-run counter
- Current barometric pressure (mbar, hPa or inHg) and a past 24-hour barometric history
- Weather forecast in 5 levels (Sunny, Partly Cloudy, Cloudy, Rain, Storm Warning)
- Data log memory (automatic and/or manual)
- IR data communication using accessory ADC IR interface (optional extra)

Art.no. 55251

| | | |
|--|---|--|
| | <h2>SILVA Atmospheric Data Center</h2> <p>Measuring all kinds of atmospheric data such as wind, temperature, altitude, barometric pressure and humidity is both a matter of interest but can, in different applications, being absolutely essential for different users. The ADC series (ADC Wind, ADC Summit and ADC Pro) are all specially constructed to meet the high demands of measuring the elements for different user categories. Bring one the next time you prefer knowledge to guesses!</p> | |
|--|---|--|



ADC Pro

This is the top model in the ADC line. Having all the features the ADC Summit has plus a humidity sensor, this is the unit for the professional/most-demanding users. The humidity sensor provides information such as RH (relative humidity), heat index, air density/relative air-density, dew-point, wet bulb – all functions for professional users such as engineers, painters, engine tuning as well as for the hobby-meteorologists, the mountaineers and demanding outdoor users.

Same features as ADC Wind plus:

- Altitude (current, min and max)
- Altitude Alarm
- Cumulative ascend/descend
- Ski-run counter
- Current barometric pressure (mbar, hPa or inHg) and a past 24-hour barometric history
- Weather forecast in 5 levels (Sunny, Partly Cloudy, Cloudy, Rain, Storm Warning)
- RH (Relative Humidity)
- Heat index
- Dew point
- Wet bulb
- Air Density/Relative Air Density
- Data log memory (automatic and/or manual)
- IR data communication using accessory ADC IR device (optional extra)

Art.no. 55252



ADC Ridge

ADC Ridge is a classic hand-held altimeter/barometer which shows both the absolute barometric pressure as well as the altitude above sea-level and height differences. The ADC Ridge is easily calibrated by turning the altimeter scale ring. The ADC Ridge comes with a click-on lanyard and the design and friction treatment of the body provides a perfect hand-fit both with and without gloves.

- Battery free
- Altimeter
- Barometer

Art.no. 55257



Learn more about ADC by watching the movies at www.silva.se



ADC IR

The Software and Communication device that enables downloading of the logged data in the ADC Summit/Pro into a PC. The ADC IR is connected directly to the USB port on the PC and receives the data from the ADC Summit/Pro. The software graphically shows the logged data and it can also be exported in a text-file format for use in other applications such as spreadsheets etc.

Comes with a 1 m extension cable and software.
Art.no. 55253

How does an altimeter work?

An altimeter works like a barometer, by measuring changes in atmospheric pressure. It responds to pressure changes and recalculates these into a certain altitude above sea level.

How accurate is a Silva Altimeter?

Provided it is recently calibrated, you will have an accuracy down to +/-1m!

Do I need to calibrate my altimeter?

Yes – since the altimeter is using recent and current air pressures for its calculation, it is important to calibrate the altimeter frequently (at known altitudes). It is good to know that a difference of 1mbar equals 8 meters altitude.

What is wind-chill?

Wind-chill is the effect of wind speed and temperature combined. It is important to consider the wind-chill factor when selecting clothing to wear during an expedition. The ADC Wind, Summit and Pro will provide you with the current wind-chill factor.

Bear in mind, that at just 20km/h wind speed and an ambient temperature of -5°C, the wind-chill effect is -20°C!

PORTRABLE POWER



Batteries are not included

- Designed for use with:**
- GPS
 - Cameras
 - Headlamps
 - PMR
 - CD players
 - GameBoys



Solar I - AA battery charger

The Silva Solar I is a high performance solar AA battery charger designed specifically for the Outdoor person. The weatherproof design along with strap holes for attaching to rucksacks makes the Silva Solar I a must have accessory to keep you on the move.

Whether it's a GPS, Headlamp, CD Player or any other device that takes AA batteries, the Silva Solar I is the ideal solution for keeping your batteries charged allowing you to get out there and enjoy the great outdoors.

Ever been out on the hill needing to know where you are and your GPS batteries are flat? Ever got up in the middle of the night, it's blowing hard outside the tent and you need to check guys, you reach for your headlamp only to find it's dead? Been on a family holiday and after the first day your daughter's Walkman packs up and you have to suffer the nagging for money to buy more batteries?

The Silva Solar I is the answer

Capable of charging 2 rechargeable AA in just 5 hours from flat*, you never need find yourself out of juice. Cut down on the cost, weight and environmental issues of carrying lots of spare standard batteries and get the freedom to roam.

Lightweight, low-profile, durable and simple to use, the Silva Solar I is designed by Outdoor people who understand the requirements of the modern day Outdoor enthusiast.

Art.no. 57119

| | |
|-----------------------|---|
| Size: | Panel 136mmH x 122mmW x 9mmD Battery Holder 130mmH x 45mmW x 27mmD |
| Weight: | Panel Approx 120g Battery Holder (Empty) Approx 70g |
| Output: | 4V @ 300mAh = 1.2W* |
| Panel Type: | Polycrystalline |
| Battery Type: | Rechargeable NiCad or NiMh |
| Colour: | Black |
| Environmental: | Weatherproof |
| Warranty: | 2 Years** |
| Art.no.: | 57119 |

* Based on 2 x completely flat 1600mAh rechargeable batteries in good sunlight conditions
** When used as per the instructions



**4.75 W
OUTPUT**

Solar II - 12V Charger

The Silva Solar II is a high performance solar 12V charger designed for the Outdoor person. The weatherproof design along with strap holes for attaching to rucksacks makes the Silva Solar II a must have accessory to keep you on the move.

Whether it's your mobile phone, PDA, iPod or other devices you can get a 12V charger lead for, the Silva Solar II gives you the freedom from the mains allowing you to get out there and enjoy the great outdoors.

How annoying ? Half way through an important call and your phone battery dies. Listening to your favourite track on your iPod and it cuts out. Modern portable electronics rely on high performance, thin, lightheaded batteries but the problem is you can't replace them like traditional AAs if they're flat.

The Silva Solar II is the answer

Capable of charging your mobile phone in the same time* as a standard mains plug or from your car, the Silva Solar II means you never need to be restricted to where you go or for how long.

Unique, lightweight, low-profile, durable design that is simple to use, the Silva Solar II is made by Outdoor people who understand the requirements of the modern day Outdoor enthusiast.

Art.no. 57118

| | |
|---|--|
| Size: | Panel Closed 180mmH x 140mmW x 15mmD Panel Open 180mmH x 270mmW x 8mmD Approx 300g |
| Weight: | 13.6V @ 350mAh = 4.75W* |
| Output: | 13.6V @ 350mAh = 4.75W* |
| Panel Type: | Polycrystalline |
| Applications: | Most 12V Charging Leads |
| Colour: | Black |
| Environmental: | Weatherproof |
| Warranty: | 2 Years** |
| Art.no.: | 57118 |
| * Based on good sunlight conditions ** When used as per the instructions | |



Do the Solar panels need direct sunshine to work?

No – they will charge at normal daylight as well, but naturally it is preferable to expose the panel to full sunlight for best performance.

As a general rule, Solar I or Solar II will produce the power rates, specified below, when faced directly at the sun:

- Direct Sun with panel faced directly at the sun – 100%
- Direct Sun with reflections from water surface, snow etc – up to 125%
- Partly cloudy (enough to cast a shadow) – approx. 50%
- Cloudy – approx. 10%

Can I attach the Solar I and Solar II to a window?

Yes, simply use suction cup mounts provided with the product. Please note that the performance of the Solar I and II will be diminished by 10 to 25% when operating through glass.

COMPASSES

Ever since Mr Gunnar Tillander invented the first SILVA 1-2-3 SYSTEM compass in 1928, SILVA has been the standard in accurate and user-friendly personal navigation all over the world!

Trusted by expeditions, defence forces, boy scouts, professional users, leisure navigators and many others in the toughest of conditions we are proud to say that we know what it takes out there. This knowledge has been transformed into the technical construction (solutions) of the products so that also future adventurers know who to trust!



FIELD



Field 7

The new contemporary version of the well known favourite that is probably the world's best selling compass. A soft, easy to grip, compass housing is made from Dryflex™, chosen for best performance and a positive tactile feeling. The small size and the rounded back of the base plate makes this compass an ideal youth/beginners compass for all kind of land navigation. Map measuring scales mm, 1:50k and 1:25k. Declination scale inside the capsule.
Art.no. 36785-1701



Field 26

A full-function mirror-sighting compass at a very attractive price-point! The new version of the Field 26 is fitted with the new compass housing made from Dryflex™, chosen for best performance and a positive tactile feeling. A large mirror with a sighting hole makes light work of accurate bearings. MM or inch map measuring scales for either metric or imperial use. Lightweight and compact design. Perfect for land and sea navigation where accurate sightings are needed. It floats!
Art.no. 36790-2701



Field 11

The perfect forest and sailing companion for all ages. Shows the main directions with the cardinal points in the capsule. Built-in safety whistle.

Art.no. 35334-2001

RANGER



Ranger 3

A classic baseplate compass specially suited to the likes of backpackers, mountaineers, hunters & fishermen. The new version of the Ranger 3 is fitted with the new compass housing made from Dryflex™, chosen for best performance and a positive tactile feeling. Built in magnifier for detailed map reading. Luminous stripe on the needle. Map measuring scales mm, 1:25k and 1:50k.
Art.no. 36783-1701



Ranger 16

Ranger 16 is the perfect compact sighting compass for all navigation on land and at sea. Incorporates a new compass housing in Dryflex™ material, chosen for best performance and a positive tactile feeling. Large sighting mirror with a sighting hole for the most accurate bearings, built in declination scale and a transparent base plate for easy map work are true signs of a functional sighting compass. Mm and inch map measuring scales for either metric or imperial use.
Art.no. 36820-8711



Ranger 27

Small in the pocket but big in the outdoors! RANGER 27 has everything you need from a mirror-sighting compass and more! Built-in sun-watch and a pin-on jacket function for hands-free use. The hunters favorite compass! The perfect spare compass for every navigator.
Art.no. 34952



EXPEDITION



Expedition 4

The "full-size" base plate compass for experienced navigators. Perfect for use with GPS. Used by different defence forces around the world. 1:25k, 1:50k, 1:63.36k, mm and inch map measuring scales. Luminous points for navigation in the dark.

Art.no. 35692-1011



Expedition 15

With an increased sized sighting mirror, this classic "expedition" compasses has become even better. The Expedition 15 has a sighting hole in the mirror for the most accurate bearings, silicon rubber feet for best friction on map when taking bearings and is equipped with Romer scales for plotting positions on maps and mm/inch map measuring scales. Built-in magnifying lens and luminous markings for night navigation are other important features for the most demanding users.

Expedition 15TDCL also has magnetic declination adjuster as well as a built-in clinometer for measuring vertical angles.
Art.no. 36814-8011 Expedition 15T
Art.no. 36818-8811 Expedition 15TDCL



Expedition 54

Top of the Silva range of traditional base plate compasses. It has an unique precision sighting system, which allows for bearings accurate to +/- 0.5 degrees to be taken! Add the same map measuring scales and silicon grip feet, as on RANGER 4, and you have a top-of-the-range compass for the advanced user!

Art.no. 35852-1011

ECLIPSE



Eclipse 97 Grip

A prize-winning design, base plate compass. Ergonomically shaped base plate with a smooth rubber grip and a lanyard complete with a click-in safety whistle! Delivered complete with a clip-on attachment (clips on to belt, map etc)

Art.no. 36353-1001



Eclipse 99 Pro

The Flagship among the ECLIPSE compasses. A one-handed operation mirror-sighting compass. Has built-in clinometer for measurement of vertical angles/slopes. Base plate with magnifier and a set of InfoCards with Survival info, Instructions for use, map measuring scales, conversion tables etc are included in the rubber "shoe". This is not just a compass - it is a complete navigation system!
Art.no. 36351-4001 (English MN)



Eclipse 96 GPS

The perfect choice for the GPS-owner. Never trust the GPS alone as your navigation aid - always remember to bring a compass. The ECLIPSE 96 GPS includes international romer scales (1:24k, 1:25k, 1:50k, 1:62,5k, 1:63,36k) for plotting exact locations on the map with UTM co-ordinates (or similar). Delivered with a Lat/Lon / UTM template for plotting locations on maps with Lat/Lon system.
Art.no. 36502-0001

VOYAGER



Voyager 9020

MM and inch measuring scales. Equipped with an inclination scale for determination of vertical angles.

Art.no. 36578-5001



Voyager 8040

Equipped with a gun-sight for accurate sighting of bearings. Lid with sighting mirror and thermometer. Built-in clinometer needle for accurate measurement of vertical angles/ slopes. Magnetic declination chart on top of the lid.
Art.no. 36582-5001



Voyager 8010

A base plate compass with a traditional type of base plate. Built in magnifier for detailed map reading. Declination adjustment facility. Map measuring scales 1:250k, 1:25k, 1:24k, 1:50k, 1:63,36k as well as mm and inch.
Art.no. 36580-5011

ADVENTURE



58

A vehicle compass specially designed for 4WD and any small craft including motor boats. Built-in illumination of the compass rose and deviation compensator [to compensate against surrounding magnetic fields that influence the compass].
Art.no. 35730-0651



70 UN

A unique combination of a steering compass and a sighting compass. When mounted in its holder it serves as a steering compass for sea-kayaks, micro-lights, boats and vehicles. Click it out and the next second you have a sighting compass for taking quick bearings in the field, in the air or at sea.
Art.no. 35014, 70 UN
Art.no. 35014-1141, 70 UNE with battery illumination



58 Kayak

A compass designed for kayaking. Clips on by straps, to the deck of the kayak.
Art.no. 36528-0601

CARABINER



Carabiner 9
The small, handy compass with an integrated carabiner.
Art.no. 36692



Carabiner 10
The compass/thermometer combination compass.
Art.no. 36693



Carabiner 28
The replica of a "real" Silva-compass.
Art.no. 36694



Carabiner 40
The wrist model to be attached to your clocks watch band.
Art.no. 36695

Silva 1-2-3 System®

I know my position on the map and would like to go to a lake in the forest, which I see on the map – how do I do?
The easiest way to set a compass course towards the lake is to use the Silva 1-2-3 System®. It is a simple and safe system used by navigators such as expeditions, youth organisations, mountain-guides, armies, orienteers etc all over the world and it is the main reason for Silva's market leading position.



1. Place the compass on the map with the edge of the compass along the desired line of travel.



2. Rotate the compass housing until N on the dial points North on the map. Check that the compass housing red/black north/south lines are parallel with the maps meridians.



3. Hold the compass in your hand and turn yourself until the red end of the compass needle (North) coincides with the red arrow in the bottom of the compass housing. The front of the compass with the direction of travel arrow is now pointing towards your destination.

NB! If using a mirror-sighting compass – angle the mirror/lid approx. 45 degrees towards yourself and hold it with straight-arm in front of you. Now, at the same time looking in the mirror to see that the compass needle aligns with the red/black N/S arrow, sight above the mirror (using the sight) towards an object in the field in line with the direction of travel.



Learn more about the Silva 1-2-3 System® and compass use by watching the movies at www.silva.se

Does my compass work anywhere in the World?

Yes, the only thing you might consider is the fact that the compass needle can dip/tilt if you travel far north or south from the area in which you bought the compass (and for which area it is intended to be used). Normally this does not affect the accuracy, but for world wide travellers we recommend the Voyager series, which due to its construction/balancing of the needle can be used in most areas without affecting its performance.

Why does my compass show the wrong direction?

Because of deviation, the deflection of the compass needle from Magnetic North, by a magnetic field other than the earth's magnetic field.

One must always be aware that this can happen. Magnetic fields exist near knives, scissors, electronic instruments including mobile phones, radios, metal fences, tins, some rings and watches, binoculars (especially the hinge screw) and vehicles. When using your compass – try to stay clear of strong magnetic fields for the best accuracy.

How do I make sure that I care for my compass in the best possible way?

Try to store your compass away from extremely strong magnetic fields such as strong magnets, loudspeakers, etc which in extreme cases can demagnetise the compass needle. Avoid giving compasses hard knocks, and if needed, clean the compass in fresh water. Also avoid exposing the compass to extreme temperatures above +50 degrees Celsius.

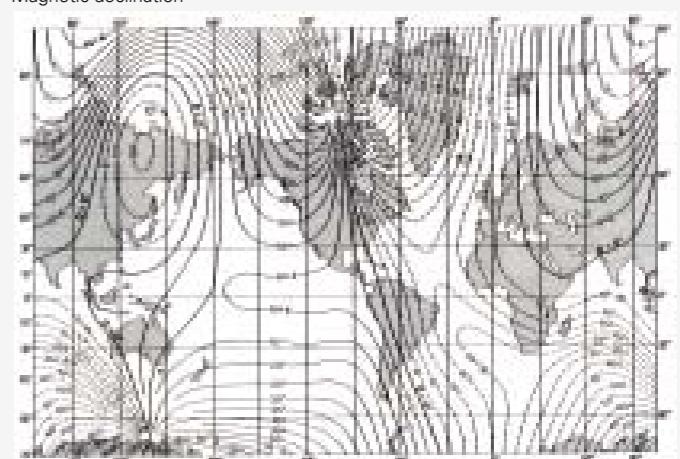
What shall I think about before leaving home?

Check the polarity of the needle, the general condition of the compass and that the compass functions correctly, so that you can be sure that you get the most out of your compass from Silva.

What is magnetic declination (variation)?

Magnetic declination is the difference in degrees, between Geographic North (to which the maps meridians are directed) and Magnetic North (to where the compass needle is pointing). It varies, depending on where you are in the world and can be found on most maps. Eastern declination means that you shall subtract the amount of the declination from the bearing obtained from the map to get a true compass course. Western declination means naturally that you should add the declination to the bearing. With some Silva compasses (such as model Expedition 15 TDCL or the Voyager series) you can compensate for the declination.

Magnetic declination



NOMAD



Nomad - Digital Compass
• Forward bearing and back bearing memory
• Off-course indicator to keep you on track
• Backlit digital display
• Adjustment for magnetic declination
• 1 degree resolution
Art.no. 46000

OPEN UP



Open Up
This is an invaluable tool for the outdoor enthusiast! A full function Silva System compass integrated into a handy tool for different "OpenUp" applications:

- OpenUp soda/beer cans
- OpenUp plastic boxes
- OpenUp sardine type boxes
- OpenUp paint boxes
- Use OpenUp as an ice scraper
- Use OpenUp to clean the car vipers
- And more

An all-in-one tool at the price of a quality compass!
Art.no. 45550-9011

MICRO RACER



Micro Racer
This new compass model is the perfect beginner's compass for educational and orienteering purposes thanks to its universal design and compact size. Attach it to the thumb on the hand in which you hold the map. Simply orientate north on the map in the same direction as the compass needle and the map reading will correspond with the surrounding terrain.
The Micro Racer is also available in a pack of 28 in a practical transport/storage case.
Art.no. 36809-0001 Micro Racer
Art.no. 36810-0001 Micro Racer, Pack of 28 pcs in transport case



PEDOMETERS

A Pedometer/Step counter is the perfect companion on your way to a healthy life. 10 000 steps a day keeps the doctor away! Measure the number of steps, distance etc and you will not only find that you get fit, you will realise that it is fun too!

ACCESSORIES

A Map measurer is the planning tool for both car trips as well as hikes. Which way is the shortest? How long is it if we go around that lake? The answer sits at your finger tips!

Have you ever tried to light a fire or your camping stove in windy conditions? Ever failed? Thought so! Bring the Helios Storm lighter next time and you will be able to keep warm – both from the fire and from the soup on the stove.



PEDOMETERS



Pedometer Alarm

This pedometer provides some extra security through the high sounding panic alarm. Shows steps, distance and calories. An additional memory function stores and displays total steps, distance and calories. The built-in filter function prevents recording of body movements and false steps. With the backlit display this pedometer can be used even during evening or night exercise.

- Steps
- Distance
- Calories
- Panic alarm
- Total memory

Art.no. 56015



Pedometer Pulse

This pedometer is suitable for the more active jogger and walker. Featuring special functions such as Speed (Min/km, Min/mile), automatic timer and a heart rate monitor make it the ideal training partner for everyday use. Also includes step and distance function. An additional memory function stores and displays total step, distance and exercise time. The built-in filter function prevents recording of body movements and false steps. Backlit display makes evening or night use possible.

- Steps
- Distance
- Speed
- Automatic timer
- Heart rate monitor
- Total memory

Art.no. 56016



Pedometer Radio

Why not be accompanied by some music while exercising? This pedometer is ideal for the everyday use. A built-in radio with a 9 channel memory and frequency visible in the display will give both encouragement and company when working out. Also includes step, distance, calorie count functions and an automatic timer. A filter function prevents recording of body movements and false steps. With the backlit display, this pedometer is suitable for evening or night exercise.

- Steps
- Distance
- Calories
- Automatic timer
- Radio

Art.no. 56017

PEDOMETERS



Step Counter

The basic model for those who like to count the number of steps taken during your work, walk or run.

Art.no. 56012



Pedometer

Shows both steps and distance. A built-in filter function which prevents recording unwanted steps stops during a walk or jog.

Art.no. 56013



Pedometer Plus

The top-model, which shows steps, distance, calories consumption and an automatic timer function. A built-in filter function which prevents recording unwanted steps stops during a walk or jog.

Art.no. 56014



Kidz Pedometer

Challenge your kids to take 10 000 steps per day! The Kidz Pedometer is the cool tool that will make your children's exercise fun and challenging! The Kidz Pedometer counts the number of steps taken.

Art.no. 56012-1

ACCESSORIES



Helios Storm Lighter

- Withstands 25m/s (55mph) winds
- 5 O-ring seals keep water out when unit is closed
- Easily refillable butane gas (Not included)
- Piezo ignition system reliable for over 30 000 ignitions
- Built-in fuel gage
- Cap opens 150° for ease of use in every situation
- Security wrist lanyard

Art.no. 56630



Map Case Alround

The Alround is a foldable map case to give the map a compact size when carried in the outdoors. Inside the map case there are extra pockets for compass, pens etc. The size is 28x26 cm and when folded is 28x14 cm.

Art.no. 55049



Digital Map Measurer

The electronic map measurer from Silva is a multi-function instrument featuring map measurer, calculator, mini flashlight, keyring and a compass.

Art.no. 55067



Map Measurer

A traditional style map measurer with 8 scales: 1:750k, 1:500k, 1:400k, 1:200k, 1:100k, 1:50k, 1:25k, 1:15k

Art.no. 55066

Pedometer – makes the daily exercise fun!

Walking is a simple way to stay in shape. It is gentle on the body, easy to do and is part of every day life like: going for the bus, walking at work or just going shopping. Walking is a natural part of the daily activities.

Taking 10.000 steps a day gives a good basis for fitness which, in turn, should create a platform for physical and mental well being.

How does a pedometer work?

A pedometer uses a sensor that registers every step you take. After having entered your stride length, the pedometer will calculate the approximate distance you have walked/run during your trip/exercise. Accuracy depends upon accurate calibration of your stride length. The average stride length along the walk, should equal the stride length used for calibration. Remember to attach the pedometer on your belt etc at your hip for best results.

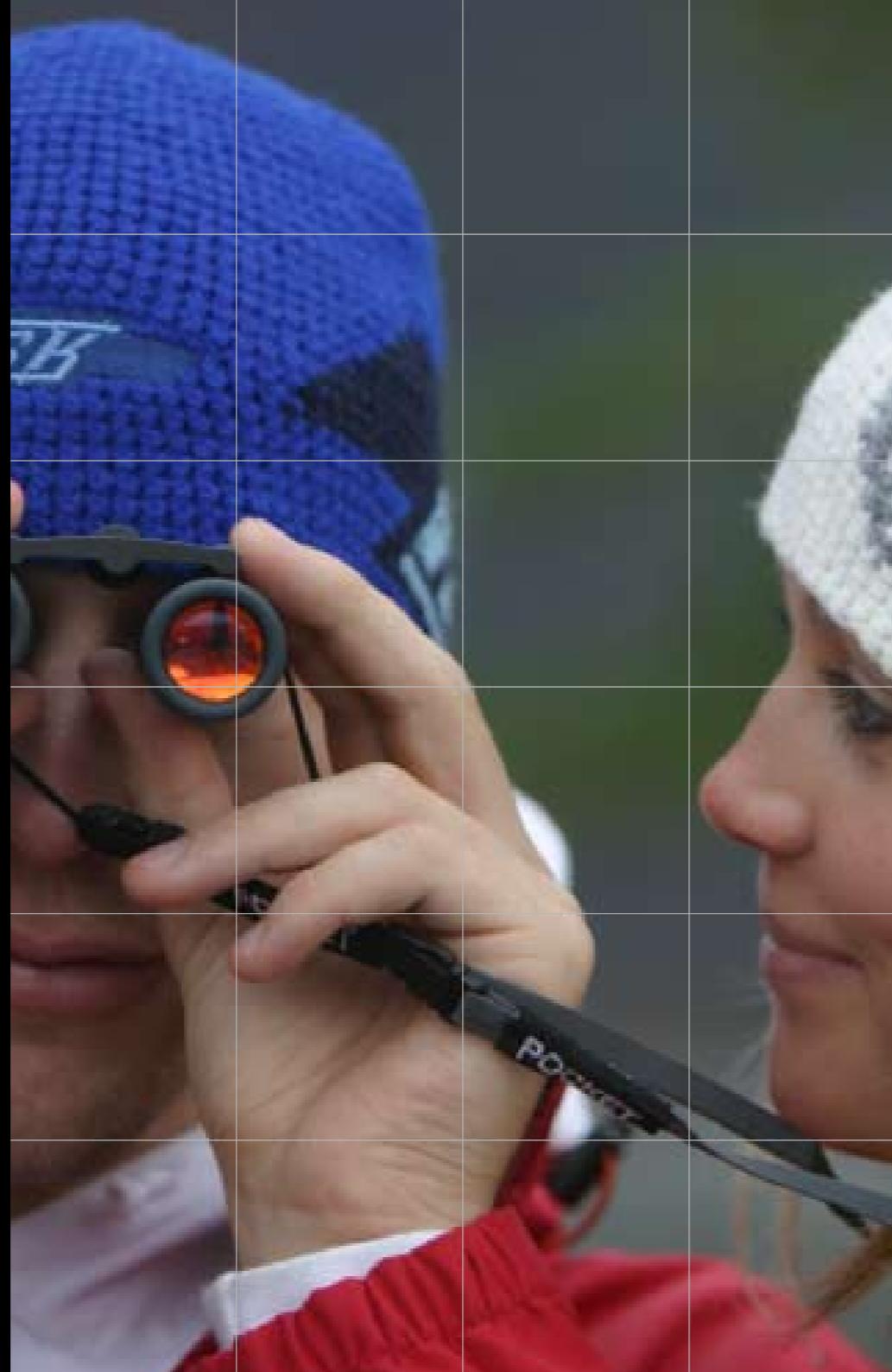
Accurate registration

The patented sensor technology in Silva's pedometers gives an accuracy of more than 99%. This makes for wider user applications such as running or walking in rough terrain with maintained accuracy.

BINOCULARS

Whether you are a bird-watcher, mountaineer, skier or backpacker, this range of outdoor binoculars offers something for everyone. We have put great effort into creating rugged, compact and user-friendly designs.

Perfect when weight and space is a problem. You will regret leaving your Silva binocular at home when you are out there!



Eterna™ Compact

Our top model – fully comparable with the best binoculars on the market! These binoculars are designed to withstand really hard use. With an aluminium frame, rubber coating and roof prism they are rugged, compact and lightweight.

- Waterproof
- Nitrogen filled
- Bak-4 optics
- Emerald Fire anti-reflex coating
- Extended eye relief for those who wear glasses
- Opti-Visor rotating eyepieces/ocular covers (pat pend)
- Weight 350g
- Size 121x95x45 mm.

Art.no. 810825 Eterna Compact 8x25

Art.no. 811025 Eterna Compact 10x25

Lite-Tech™ Compact

- Emerald Fire™ full multi-coating
- Bak-4 roofprism
- Waterproof
- Fogproof
- Nitrogen filled
- Extra wide neck strap

Art.no. 850825 Lite-Tech Compact 8x25

Art.no. 851025 Lite-Tech Compact 10x25



Lite-Tech™ Vision

- Solid rubber coated design
- Anti-reflection coating
- Comes fully equipped with carrying case and an integrated neck-strap

Art.no. 850724 Lite-Tech Vision 7x24

Art.no. 850924 Lite-Tech Vision 9x24



Pocket

- 8x or 10x magnification
- Anti-reflection coating
- Solid rubber coated design
- Comes fully equipped with carrying case and an integrated neck-strap

Art.no. 870821 Pocket 8x21

Art.no. 871025 Pocket 10x25

What is eye relief?

The ocular lens is the one through which the user sees the image in the binoculars. Eye relief is the distance from the ocular lens to the user's eye. The distance must be correct, in order to see a complete, clear and sharp image. If you wear glasses, you should choose a type of binoculars with eyepieces that can be pushed or folded in, because glasses offset the distance of the eye to the lens. Eterna™ Compact featuring fold-out/fold-in eyepieces

Do I need binoculars that are waterproof?

If the binoculars are going to be used in rain or in a marine environment it is wise to choose a waterproof model. The same is true if the binoculars will be subject to significant changes in temperature. Waterproof binoculars (preferably filled with nitrogen) keep out the surrounding air and its moisture and maintain a stable and dry condition inside the binoculars. This prevents condensation. When condensation dries out, it leaves droplet marks, which remain permanently inside the lenses.

How much magnification do I need?

If the binoculars are going to be hand held and also used on moving platforms (eg at sea) we recommend 7x or 8x magnification. The characteristics of 8x25 (Eterna™ Compact) are an excellent choice.

For outdoor use ashore it may be advantageous to choose more powerful magnification, depending on what you need them for.

How important is the price tag?

The optical quality of the binoculars matches the price. Bak-4 optics are more expensive and complicated to produce than standard Bk-7 optics. It takes a lot of work to produce good anti-reflection coated lenses which also affects the price.

If your top priority is optical peak quality we recommend Eterna™ Compact.

If you want to keep the price level down, but still get good and very price worthy binoculars, you should take a closer look at the Lite-Tech™ series. If you need small, light and easy to use binoculars, or an extra pair, Pocket should be your choice.

What do the numbers mean?

For example 8x25:

"8x" means that the object in view appears 8 times larger than when visualised with the naked eye.

"25" is the size or diameter of the front (object) lens expressed in millimetres. A larger diameter lets in more light and makes the binoculars better in poor light conditions.

Different glass qualities?

There are two types of glass quality: Bak-4 and Bk-7.

Bak-4 is extremely clean and transparent and is reportedly the best binocular grade glass on the market. Bak-4 quality is achieved through a complicated and time consuming manufacturing process.

Bk-7 is the standard quality for glass in binoculars. It is less expensive to manufacture and therefore more popular for simple binoculars.

What is anti-reflection coating?

Stray light inside the binoculars spoils the image.

In order to enhance the viewed image, coating is applied to the lenses and/or prisms. It consists of a thin polarizing layer of magnesium fluoride. Each layer of stray light anti-reflection coating gives a brighter and sharper image. Our patented coating system Emerald Fire eliminates as much as 99.6% of the harmful UV- and IR-radiation.